RF Errors Corrected by the S	CHF Processing Date. 170 /
Changed a file from non-ASCII to ASCII	Verified by: (STIC
Changed the margins in cases where the sequence text	was "wrapped" down to the next line.
Edited a format error in the Current Application Data sect	tion, specifically:
Edited the Current Application Data section with the actual applicant was the prior application data; or other	al current number. The number inputted by the
Added the mandatory heading and subheadings for "Curr	rent Application Data*
Edited the "Number of Sequences" field. The applicant s	spelled out a number instead of using an integer.
Changed the spelling of a mandatory field (the headings of	or subheadings), specifically
Corrected the SEQ ID NO when obviously incorrect. The	e sequence numbers that were edited were:
Inserted or corrected a nucleic number at the end of a nu	cleic line. SEQ ID NO's edited:
Corrected subheading placement. All responses must be applicant placed a response below the subheading, this was applicant placed as response below the subheading.	on the same line as each subheading. If the was moved to its appropriate place.
Inserted colons after headings/subheadings. Headings e	edited included:
Deleted extra, invalid, headings used by an applicant, sp	pecifically:
Deleted: ☐ non-ASCII "garbage" at the beginning/end of a page numbers throughout text; ☐ other invalid text	of files; Secretary initials/filename at end of ct, such as
Inserted mandatory headings, specifically:	
Corrected an obvious error in the response, specifically:	
Edited identifiers where upper case is used but lower ca	ase is required, or vice versa.
Corrected an error in the Number of Sequences field, sp	pecifically:
A "Hard Page Break" code was inserted by the applicant	at. All occurrences had to be deleted.
Deleted <i>endIng</i> stop codon in amino acid sequences and due to a PatentIn bug). Sequences corrected:	
Other: Corrected invalid amin Seg #6.	o ceid numbering.
Seg # 6.	

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

DATE: 06/05/2001

TIME: 14:15:01

# PCT09

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Input Set : A:\Cpg.pto
                     Output Set: C:\CRF3\06052001\1831622.raw
      2 <110> APPLICANT: Takeda Chemical Industries, Ltd.
      4 <120> TITLE OF INVENTION: Novel Protein And Its Use
      6 <130> FILE REFERENCE: 2569WOOP
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C--> 8 <141> CURRENT FILING DATE: 2001-05-11
      8 <150> PRIOR APPLICATION NUMBER: JP 10-323199
      9 <151> PRIOR FILING DATE: 1998-11-13
     10 <150> PRIOR APPLICATION NUMBER: JP 10-346925
     11 <151> PRIOR FILING DATE: 1998-12-07
     13 <160> NUMBER OF SEQ ID NOS: 8
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     17 <212> TYPE: DNA
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                                                                            120
     23 ctgttagaag tgaaagcaag gggaagattt ggttgtgtct ggaaagccca gttgctcaat
                                                                            180
     24 gaatatgtgg ctgtcaaaat atttccaata caggacaaac agtcctggca gaatgaatat
                                                                            240
     25 gaagtetata gtetacetgg aatgaageat gagaacatae tacagtteat tggtgeagag
                                                                            300
     26 aaaagaggca ccagtgtgga tgtggacctg tggctaatca cagcatttca tgaaaagggc
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     28 gaaaccatgg ctagaggatt ggcatattta catgaggata tacctggctt aaaagatggc
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     29 cacaageetg caatetetea cagggacate aaaagtaaaa atgtgetgtt gaaaaacaat
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     30 ctgacagett geattgetga etttgggttg geettaaagt tegaggetgg eaagtetgea
                                                                            600
     31 ggtgacaccc atgggcaggt tggtacccgg aggtatatgg ctccagaggt gttggagggt
                                                                            660
     32 gctataaact tccaaaggga cgcatttctg aggatagata tgtacgccat gggattagtc
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     33 ctatgggaat tggcttctcg ttgcactgct gcagatggac ccgtagatga gtacatgtta
     34 ccatttgagg aagaaattgg ccagcatcca tctcttgaag atatgcagga agttgttgtg
                                                                            840
     35 cataaaaaa agaggcctgt tttaagagat tattggcaga aacatgcagg aatggcaatg
     36 ctctgtgaaa cgatagaaga atgttgggat catgatgcag aagccaggtt atcagctgga
     37 tgtgtaggtg aaagaattac tcagatgcaa agactaacaa atatcattac tacagaggac 1020
     38 attgtaacag tggtcacaat ggtgacaaat gttgactttc ctcccaaaga atctagtcta 1080
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     41 gcaagcagcc ccttgtggaa agcatggatc tgggagatgg atctgggaaa cttactgcat 1260
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     44 atcaagtatt tgcaaaactg acatcagatt tcttaatgtc tgtcagaaga cactaattcc 1440
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/831,622

DATE: 06/05/2001 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/831,622 TIME: 14:15:01

Input Set : A:\Cpg.pto

Output Set: C:\CRF3\06052001\1831622.raw

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                                                                      240
57 tcatagetet ttteeteage egececetee tteetteteg geteaactag gteagegeaa
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58 ggtgatcccg gagagcgggg cggcggggac cgctcctcct gttacttatc gagcgcgcgc
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59 tccctcccga gcctcacacc ctcgcttcgc cctttttttt ccactgtcca ggaactggtt
                                                                      420
                                                                      480
60 ccctccttcc tcttccacct gccctacctt ctccagagat ccgacgtggc gattagagtt
61 ctcagcgtca cactgacttc taggcaacta gcctagactg gagctgcgtg ttgtgggaac
                                                                      540
62 cccgcggcag tagttgagca tcaggctctt accttggagg tggaggggtg agaagaatag
                                                                      600
63 aggaagaagg gataagtcag aggagggcct gaacaactag cccctctatt ggcctgcttt
                                                                      660
64 gggtgagcat tcagtgagtg tgtttaaaaa aaaaaaggga gggaaaacaa aagacctcag
                                                                      720
65 gagcagtttt gtgttgctgt gtctggcttc aagaagaaaa ttctagacat ttatgccggc
                                                                      780
                                                                      840
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67 tggatcagta caggtggttt gaggagacgc tgacagagga ccatggaaag gtgggagagg
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68 acgcgcggct cctgggcttc ctctgagctc agctccaggc accacaaggc cacataagga
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71 gcctccagct gaaccagcac cattattaaa tgtaacagac cagatacttc cgggagctac 1140
72 tccaagtgct gaggggaagc ggaaaagaaa taagtcagtg accaacatgg agaaagcaag 1200
73 tatagagcct ccagaggagg aagaagaaga aaggcctgta gtcaatggaa acggcgtggt 1260
74 cataacccca gaatccagtg aacatgaaga caaaagtgca ggtgcctcag gggagacacc 1320
75 ctcccagcct taccctgcac ccgtgtacag ccagcccgaa gagctcaagg accagatgga 1380
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79 <211> LENGTH: 1431
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81 <213> ORGANISM: Mouse

83 <400> SEQUENCE: 3

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Input Set : A:\Cpg.pto

Output Set: C:\CRF3\06052001\1831622.raw

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     117 cctcacgctg acattgtgaa gctcatcaag gacgccggtc tcagtgtcac ccttcgcatc
     118 attectcagg aggageteaa cageecaaca teageaceea gtteagagaa acagageeee
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     119 atggcccage ageacagece tetggcccag cagagteete tggcccagec aageceegee
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     120 acceccaaca geccagtege acagecaget cetececaac etetecaget geaaggacae
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     121 gaaaatagtt acaggtcaga agttaaagcg aggcaagatg tgaagccaga catccggcag
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     122 cctccttca cagactacag gcagcccccg ctggactaca ggcagccccc gggaggagac
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     123 tactcacage ecceaecett ggactacagg cageaetete cagacaceag geagtaceet
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     127 atcattgaaa taaatgggga aagcacacga gacatgaccc acgccagagc aatagaactc
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     128 atcaagtctg gaggaagaag agtgcggctg ctgctgaaga gaggcacggg gcaggtcccg
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     131 ccgctgccgc cgccccaggc ctgccggaag taggcgtctc cctcgaagac atcctctct 1020
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     145 Glu Gly Glu Val Pro Gly Val Asp Tyr Ile Phe Ile Thr Val Glu Glu
                                       40
                  35
     147 Phe Met Glu Leu Glu Lys Ser Gly Ala Leu Leu Glu Ser Gly Thr Tyr
                                                       60
                                   55
              50
     149 Glu Asp Asn Tyr Tyr Gly Thr Pro lys Pro Pro Ala Glu Pro Ala Pro
                                                                       ้ลก
                                                   75
                               70
     150 65
     151 Leu Leu Asn Val Thr Asp Gln Ile Leu Pro Gly Ala Thr Pro Ser Ala
                                               90
                           85
     153 Glu Gly Lys Arg Lys Arg Asn Lys Ser Val Thr Asn Met Glu Lys Ala
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                                          105
                      100
     154
     155 Ser Ile Glu Pro Pro Glu Glu Glu Glu Glu Arg Pro Val Val Asn
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     157 Gly Asn Gly Val Val Ile Thr Pro Glu Ser Ser Glu His Glu Asp Lys
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RAW SEQUENCE LISTING DATE: 06/05/2001 PATENT APPLICATION: US/09/831,622 TIME: 14:15:01

Input Set : A:\Cpg.pto

Output Set: C:\CRF3\06052001\1831622.raw

159 160		Ala	Gly	Ala	Ser	Gly 150	Glu	Thr	Pro	Ser	Gln 155	Pro	Tyr	Pro	Ala	Pro 160
161 162	Val	Tyr	Ser	Gln	Pro 165	Glu	Glu	Leu	Lys	Asp 170	Gln	Met	Asp	Asp	Thr 175	Lys
163 164				180	Glu			Glu	185					190		
165 166			195					Lys 200					205			
168		210					215	Leu				220				
170	225					230		Glu			235					240
172					245			Gly		250					255	
174				260				Pro	265					270		
176			275					Thr 280					285			
178		290					295	Pro				300				
180	305					310		Thr			315					320
102					325			Gly		330					333	
101				340				Gly	345					330		
186			355					Tyr 360					300			
1 2 2		370					375	Lys				380				
190	385					390		Cys			395					400
192					405			Met Asn		410					410	
194				420					425					430		Asp
196			435					440					445			Asp
198		450					455					460				Ser
200	465					470					4/5					`480 Gly
202					485					490					493	Arg
204				500					505	)				210		Gly
206	:		515	·				520					525			His
207	ASP	ьeu	тте	· val	GIU		1101	. 011								

RAW SEQUENCE LISTING DATE: 06/05/2001 PATENT APPLICATION: US/09/831,622 TIME: 14:15:01

Input Set : A:\Cpg.pto

Output Set: C:\CRF3\06052001\1831622.raw

208		530					535					540				
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210	545					550		~ 3	-1	<b>D</b> 1	555	D	П	T	mb ~	560
	Ser	Leu	Ile	Ile		Arg	Gly	GLy	Phe	570	Ser	Pro	Trp	ьys	575	PIO
212	_	<b>-</b>	<b>N</b> - +-	Mada	565	7. ~~	T×n	C1,,	Nan		Glv	Ser	Pro	Gln		Ser
	Lys	Pro	мет	Met 580	Asp	Arg	пр	GIU	585	GIII	Сту	Ser	110	590	1	502
214	T 011	cor	Λla	Pro	Δla	Val	Pro	Gln		Leu	Pro	Phe	Pro		Ala	Leu
216	пеп	261	595	110	mu	· · · · ·		600					605			
217	His	Ara	Ser	Ser	Phe	Pro	Asp		Thr	Glu	Ala	Phe	Asp	Pro	Arg	Lys
218		610					615					620				
219	Pro	Asp	Pro	Tyr	Glu	Leu	Tyr	Glu	Lys	Ser	Arg	Ala	Ile	Tyr	Glu	Ser
220	625					630					635					640
221	Arg	Gln	Gln	Val		Pro	Arg	Thr	Ser	Phe	Arg	Met	Asp	Ser	Ser	GLY
222					645	_	_			650	7	7	Mot	Clu	655	G1 v
	Pro	Asp	Tyr	Lys	Glu	Leu	Asp	Val		Leu	Arg	Arg	мес	670	Set	GIÀ
224	·	<b>~</b> 1	<b>D</b> 1	660	T1 =	T 0.12	C1	C1	665	Glu	Dro	Glv	Gln		Tle	Leu
	Phe	GLY		Arg	ше	ьeu	СТА	680	Asp	GIU	FIO	Сту	685	110	110	Dog
226	T1.	C1	675	Val	Tla	Δla	Met		Ser	Ala	Asp	Ara		Glv	Arq	Leu
228	тте	690	Ата	vai	116	пια	695	O L y	501	1114		700	1	-	_	
220	His	Pro	Glv	Asp	Glu	Leu		Tyr	Val	Asp	Gly	Ile	Pro	Val	Ala	Gly
230	705					710					715					120
231	Lvs	Thr	His	Arg	Tyr	Val	Ile	Asp	Leu	Met	His	His	Ala	Ala	Arg	Asn
232					725					730					135	
233	Gly	Gln	Val	Asn	Leu	Thr	Val	Arg	Arg	Lys	Val	Leu	Cys	Gly	Gly	GLu
234				740				_	745	~ 1	_		Q	750	II i a	II i c
		Cys		Glu	Asn	Gly	Arg	Ser	Pro	GLy	Ser	vaı	5er	Thr	HIS	птэ
236	_	_	755	20	<b>Q</b>	7	M	760	<b>መ</b> ኤ ም	Tur	Sar	Δen		Asn	His	Ala
	Ser		Pro	Arg	Ser	Asp	775	Ala	1111	тут	261	780	DCI	11011	1110	
238	717	770	Sar	Ser	Asn	Δla		Pro	Pro	Glu	Glv		Ala	Ser	His	Ser
	785	FIO	Ser	DCI	11011	790	501				795					800
241	Leu	Gln	Thr	Ser	Asp	Val	Val	Ile	His	Arg	Lys	Glu	Asn	Glu	Gly	Phe
242					805					810					812	
243	Gly	Phe	Val	Ile	Ile	Ser	Ser	Leu	Asn	Arg	Pro	Glu	Ser	Gly	Ala	Thr
244				820					825					830		
245	Ile	Thr		Pro	His	Lys	Ile	Gly	Arg	Ile	Ile	Asp	GLY	Ser	Pro	Ala
246			835		_	_	_	840	<b>01</b>	7	70 === ===	т1.	845	Nla	Wal	Δen
			Суѕ	Ala	Lys	Leu			СТА	Asp	Arg	860	Leu	Ита	vaı	ASII
248	<b>6</b> 3	850	<b>Q</b>	Ile	т1 -	7 0 0	855 Mot		Иie	Δla	Asn			Lvs	Leu	Ile
			Ser	тте	тте	870	Mec	FIO	111.5	ALU	875			-1-		880
250	865	Aen	Δla	Glv	T.e.11			Thr	Leu	Ara			Pro	Gln	Glu	Glu
251		изъ	ALG	Ory	885					890					895	
253	Leu	Asn	Ser	Pro	Thr	Ser	Ala	Pro	Ser	Ser	Glu	Lys	Gln	Ser	Pro	Met
254				900					905					910		
255	Ala	Gln	Gln	His	Ser	Pro	Leu	Ala	Gln	Gln	Ser	Pro	Leu	Ala	Gln	Pro
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#### VERIFICATION SUMMARY

PATENT APPLICATION: US/09/831,622

DATE: 06/05/2001 TIME: 14:15:02

Input Set : A:\Cpg.pto

L:501 M:112 C: (48) String data converted to lower case,

M:112 Repeated in SeqNo=8

Output Set: C:\CRF3\06052001\1831622.raw

L:8 M:270 C: Current Application Number differs, Replaced Current Application No
L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:21 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=1
L:53 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=2
L:84 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=3
L:115 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=4
L:291 M:283 W: Missing Blank Line separator, <400> field identifier
L:436 M:283 W: Missing Blank Line separator, <400> field identifier
L:437 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=7
L:500 M:283 W: Missing Blank Line separator, <400> field identifier

# PCT09

RAW SEQUENCE LISTING DATE: 05/23/2001 PATENT APPLICATION: US/09/831,622 TIME: 16:06:35

Input Set : A:\Sequence Listing.txt
Output Set: C:\CRF3\05232001\1831622.raw

2 <110> APPLICANT: Takeda Chemical Industries, Ltd.
W--> 3 <120> TITLE OF INVENTION: Novel Protein And Its Use
W--> 4 <130> FILE REFERENCE: 2569WOOP
C--> 5 <140> CURRENT APPLICATION NUMBER: Us/09/831,622
C--> 5 <141> CURRENT FILING DATE: 2001-05-11
5 <150> PRIOR APPLICATION NUMBER: JP 10-323199
6 <151> PRIOR FILING DATE: 1998-11-13
7 <150> PRIOR APPLICATION NUMBER: JP 10-346925
8 <151> PRIOR FILING DATE: 1998-12-07

#### ERRORED SEQUENCES

W--> 9 <160> NUMBER OF SEQ ID: 8

273 <210> SEQ ID NO: 6 274 <211> LENGTH: 1112 275 <212> TYPE: PRT 276 <213> ORGANISM: Mouse W--> 277 <400> SEQUENCE: 6 278 Met Glu Leu Glu Lys Ser Gly Ala Leu Leu Glu Ser Gly Thr Tyr Glu 10 280 Asp Asn Tyr Tyr Gly Thr Pro lys Pro Pro Ala Glu Pro Ala Pro Leu 25 282 Leu Asn Val Thr Asp Gln Ile Leu Pro Gly Ala Thr Pro Ser Ala Glu 35 284 Gly Lys Arg Lys Arg Asn Lys Ser Val Thr Asn Met Glu Lys Ala Ser 55 50 286 Ile Glu Pro Pro Glu Glu Glu Glu Glu Arg Pro Val Val Asn Gly 75 70 288 Asn Gly Val Val Ile Thr Pro Glu Ser Ser Glu His Glu Asp Lys Ser 90 290 Ala Gly Ala Ser Gly Glu Thr Pro Ser Gln Pro Tyr Pro Ala Pro Val 100 292 Tyr Ser Gln Pro Glu Glu Leu Lys Asp Gln Met Asp Asp Thr Lys Pro 120 115 294 Thr Lys Pro Glu Glu Asn Glu Asp Ser Asp Pro Leu Pro Asp Asn Trp 135 296 Glu Met Ala Tyr Thr Glu Lys Gly Glu Val Tyr Phe Ile Asp His Asn 155 150 297 145 298 Thr Lys Thr Thr Ser Trp Leu Asp Pro Arg Leu Ala Lys Lys Ala Lys 170 299 165 300 Pro Pro Glu Glu Cys Lys Glu Asn Glu Leu Pro Tyr Gly Trp Glu Lys 185 180 302 Ile Asp Asp Pro Ile Tyr Gly Thr Tyr Tyr Val Asp His Ile Asn Arg 200 304 Arg Thr Gln Phe Glu Asn Pro Val Leu Glu Ala Lys arg Lys Leu Gln 215 210 305

RAW SEQUENCE LISTING DATE: 05/23/2001 PATENT APPLICATION: US/09/831,622 TIME: 16:06:35

Input Set : A:\Sequence Listing.txt
Output Set: C:\CRF3\05232001\I831622.raw

											•					
		His	Asn	Met	Pro	His 230	Thr	Glu	Leu	Gly	Ala 235	Lys	Pro	Leu	Gln	Ala 240
307	225	C1	Dho	Arg	Glu		Pro	T.e.11	Phe	Thr		Asp	Ala	Ser	Gln	
308	PLO	сту	rne	Arg	245	цуз	110	шса	1110	250	9				255	
310	T.ve	Glv	Thr	Phe		Ser	Thr	Thr	Leu		Lys	Ser	Asn	Met	Gly	Phe
311	шуз	O-1		260			-		265	-	-			270		
312	Glv	Phe	Thr	Ile	Ile	Gly	Gly	Asp	Glu	Pro	Asp	Glu	Phe	Leu	Gln	Val
313			275					280					285			
314	Lys	Ser	Val	Ile	Pro	Asp	Gly	Pro	Ala	Ala	Gln	Asp	Gly	Lys	Met	Glu
315		290					295					300				
316	Thr	Gly	Asp	Val	Ile	Val	Tyr	Ile	Asn	Glu	Val	Cys	Val	Leu	Gly	His
317	305					310					315		_	-1	Q1	320
318	Thr	His	Ala	Asp	Val	Val	Lys	Leu	Phe	Gln	Ser	Val	Pro	TTE	GIA	GIn
319					325	_	~	<b>.</b>	<b>01</b>	330	D	T 0	Dro	Dho	335	Dro
	Ser	Val	Asn	Leu	Val	Leu	Cys	Arg	GTA	Tyr	Pro	ьеu	PIO	350	ASP	FIO
321		_	_	340 Ala	70	C	Mot	17 - 1	345 Pro	Dro	Lau	Δla	T۱۵		Glu	Ara
	Glu	Asp		Ala	ASII	ser	Met	360	FIO	110	ьса	niu	365	1100		9
323	Dwo	Dro	355	Val	Mat	Val	Asn		Ara	His	Asn	Tvr		Thr	Tyr	Leu
325	PIO	370	FIU	vaı	Hec	٧۵٢	375	O± y	9			380			-4	
325	Glu	Tyr	Tle	Ser	Ara	Thr		Gln	Ser	Val	Pro	Asp	Ile	Thr	Asp	Arg
327	385					390					395					400
328	Pro	Pro	His	Ser	Leu	his	Ser	Met	Pro	Ala	Asp	Gly	Gln	Leu	Asp	Gly
329					405					410					415	
330	Thr	Tyr	Pro	Pro	Pro	Val	His	Asp	Asp	Asn	Val	Ser	Met	Ala	Ser	Ser
331				420					425					430		
332	Gly	Ala	Thr	Gln	Ala	Glu	Leu	Met	Thr	Leu	Thr	Ile	Val	Lys	GTA	Ala
333			435					440	_	_	_	m)	445	G1	7)	17- 1
334	Gln		Phe	Gly	Phe	Thr	Ile	Ala	Asp	Ser	Pro	Thr	GIY	GIN	Arg	Val
335		450		_	_	<b>-</b> 1	455	<b>01</b>	C	Dwo	C1.,	460	Cvc	Glu	G1 v	Δsn
		Gln	Ile	Leu	Asp	116	GIN	СТУ	Cys	PIO	475	ьeu	Cys	GIU	СТУ	Asp 480
337	465	<b>-</b> 1 -	t7 - 1	Glu	т1.	470	Cln	Gln	Δen	Val		Asn	Leu	Ser	His	
		ire	vaı	GIU	485	ASII	GIII	GIII	11011	490	01				495	
339	Glu	V = 1	Val	Asp	Tle	Len	Lvs	Asp	Cvs			Gly	Ser	Glu	Thr	Ser
341		vai	VUL	500	110	200			505			-		510		
342	Leu	Ile	Ile		Arq	Gly	Gly	Phe	Phe	Ser	Pro	Trp	Lys	Thr	Pro	Lys
343			515					520					525			
344	Pro	Met	Met	Asp	Arg	Trp	Glu	Asn	Gln	Gly	Ser	Pro	Gln	Thr	Ser	Leu
345		530					535					540				
346	Ser	Ala	Pro	Ala	Val	Pro	Gln	Asn	Leu	Pro	Phe	Pro	Pro	Ala	Leu	His
347	545					550					555					560
348	Arg	Ser	Ser	Phe	Pro	Asp	Ser	Thr	Glu	Ala	Phe	Asp	Pro	Arg	ьуs 575	Pro
349					565	_	~1	Ŧ	Q	570		т1.	m	Glu		Δrα
		Pro	Tyr			Tyr	GLu	гуѕ	5er 585	Arg	нта	116	тÀГ	590	DET	Arg
351	<i>a</i> :	<b>C</b> 3.		580	D~-	71 ~~~	ሞ ኤ ~	. Sar			Mo+	Asn	Ser			Pro
		GIN	Val 595		PIO	HIG	1111	600	1116	. ALG	1100	1.00	605		1	
353	λον	ጥ ‹ › ~	J.ve	Glu	T,eu	Asn	Val			Aro	Ara	Met			Gly	Phe
354	nsp	тАг	пуз	. oru	ں ت	p				3	. — <del>9</del>				-	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/831,622

DATE: 05/23/2001
TIME: 16:06:35

Input Set : A:\Sequence Listing.txt
Output Set: C:\CRF3\05232001\1831622.raw

255		610					615					620				
353	C1.,	DPO	λκα	Tla	T.611	Glv		Asp	Glu	Pro	Glv		Pro	Ile	Leu	Ile
357	_	rne	Arg	116	пси	630	O T Y	1101			635	<b></b>				640
357	C1 v	70.10	Wal	Tla	Δla		Glv	Ser	Ala	Asp		Asp	Glv	Ara	Leu	His
	сту	Ala	val	116	645	1100	O L y	001		650	5		1	5	655	
359	Dwo	C1	7\ 0.50	Clu		Val	ጥኒኒዮ	Val	Asn		Tle	Pro	Val	Ala	Gly	Lvs
	PIO	СТУ	ASP	660	neu	Val	1 <b>y</b> ±	var	665	O L y				670	<b>-</b> -1	1
361	m1	114 -	7) ~		17-1	Tlo	7 cn	T 011		Иic	His	Δla	Δla		Asn	Glv
	Thr	HIS		TÀT	Val	TTE	ysb	680	1160	1113	1113	1114	685	11119	11011	0-1
363	~1	** 7	675	T	m\	17-1	7. ~~		T	W-1	Lou	Cue	-	Glv	Glu	Pro
	Gin		Asn	Leu	Thr	vai		Arg	пЛ2	val	пеп	700	Сту	Ory	Oru	110
365	_	690	<b>~</b> 1	<b>n</b>	<b>01</b>	70	695	Dwo	C1	Cor	W-1		Thr	ніс	Hie	Ser
		Pro	GIU	Asn	GTĀ		ser	PIO	СТУ	Ser	715	261	1111	1113	His	720
367	705	_	_		7	710	7.1	Шb за	П	C02		cor	7 cn	Шic	Δla	
	Ser	Pro	Arg	Ser		Tyr	Ата	THE	ıyı		ASII	Ser	NO!!	1113	Ala 735	AIG
369	_	_	~	_	725	<u> </u>	D	D	C1	730	Dho	717	802	шіс		Lau
	Pro	Ser	Ser		Ата	Ser	Pro	Pro	GIU	СΙУ	Pne	Ата	ser	750	Ser	пец
371			_	740		1		•••	745	T	Q1	7	C1		Dho	C1.,
	Gln	Thr		Asp	Val	Val	TTE	HIS	Arg	гÀг	GLU	ASII	GIU	GIY	Phe	Сту
373			755		_	_	_	760		Б	<b>01</b>	0	765	70.70	mb~	тіс
374	Phe	Val	Ile	Ile	Ser	Ser		Asn	Arg	Pro	GIU		GIŢ	Ald	Thr	116
375		770				_	775	_			_	780	<b>.</b>	D	70.7 -	7
376	Thr	Val	Pro	His	Lys		Gly	Arg	Ile	lle		GTA	Ser	Pro	Ala	Asp
377	785					790	_		_	_	795	-	<b>3</b> 7 -	**. 1	71	800
378	Arg	Cys	Ala	Lys		Lys	Val	Gly	Asp		IIe	Leu	Ата	vaı	Asn	GIÀ
379					805		_	•		810	-1	** - 1	<b>7</b>	T	815	T
380	Gln	Ser	Ile	Ile	Asn	Met	Pro	His		Asp	TTe	Va⊥	гуѕ	теп	Ile	ьys
381				820					825			_	<b>01</b> .	830	G1	T
382	Asp	Ala	Gly	Leu	Ser	Val	Thr		Arg	Ile	lle	Pro	GIN	GIU	Glu	Leu
383			835					840		_,	_	<b>6</b> 3	845	Б	N - 4-	70.7
384	Asn	Ser	Pro	Thr	Ser	Ala		Ser	Ser	Glu	Lys	GIN	Ser	Pro	Met	Ala
385		850					855		~ 3	_	_	860	77-	C1	D	C
386	Gln	Gln	His	Ser	Pro		Ala	Gln	GIn	Ser		Leu	Ата	GIN	Pro	Ser
387	865					870					875		_	ъ	Q1	880
388	Pro	Ala	Thr	Pro		Ser	Pro	Val	Ala		Pro	Ala	Pro	Pro	Gln	Pro
389					885				_	890	_	_	<b>~</b> 1		895	n1 -
	Leu	Gln	Leu		Gly	His	Glu	Asn	Ser	Tyr	Arg	Ser	GLu	val	Lys	Ата
391				900					905		_	_	-1	910	70	m
392	Arg	Gln	Asp	Val	Lys	Pro	Asp		Arg	Gln	Pro	Pro	Phe	Thr	Asp	Tyr
393			915					920					925	_	_	
394	Arg	Gln	Pro	Pro	Leu	Asp		Arg	Gln	Pro	Pro		Gly	Asp	Tyr	Ser
395		930					935					940	_	_	_	<b>61</b>
396	Gln	Pro	Pro	Pro	Leu	Asp	Tyr	Arg	Gln	His	Ser	Pro	Asp	Tyr	Arg	GIn
397	945					950					955			_		960
398	Tyr	Pro	Leu	Ser	Asp	Tyr	Arg	Gln	Pro	Gln	Asp	Phe	Asp	Tyr	Phe	Thr
399					965					970					975	
400	Val	Asp	Met	Glu	Lys	Gly	Ala	Lys	Gly	Phe	Gly	Phe	Ser	Ile	Arg	Gly
401				980					985					990		
402	Gly	Arg	Glu	Tyr	Lys	Met				Val	Leu	Arg	Leu	Ala	Glu	Asp
403			995					1000					1005			

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Input Set : A:\Sequence Listing.txt
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404 Gly Pro Ala Ile Arg Asn Gly Arg Met Arg Val Gly Asp Gln Ile Ile 1020 1015 406 Glu Ile Asn Gly Glu Ser Thr Arg Asp Met Thr His Ala Arg Ala Ile 1030 1035 408 Glu Leu Ile Lys Ser Gly Gly Arg Arg Val Arg Leu Leu Lys Arg Amino number

> cannot be placed

under two 1055 1050 1045 410 Gly Thr Gly Gln Val Pro Glu Tyr Gly Met Val Pro Ser Ser Leu Ser 1065 - 1070 E--> 411 412 Met Cys Met Lys Ser Asp Lys His Gly Ser Pro Tyr Phe Tyr Leu Leu 1080 1085 414 Gly His Pro Lys Asp Thr Thr Asn Pro Thr Pro Gly Val Leu Pro Leu aminos. 1100 E--> 415 1090 1095 416 Pro Pro Pro Gln Ala Cys Arg Lys E--> 417 1105 1110

Only number every 5th amino acid.

### VERIFICATION SUMMARY

PATENT APPLICATION: US/09/831,622 TIME: 16:06:36

DATE: 05/23/2001

Input Set : A:\Sequence Listing.txt
Output Set: C:\CRF3\05232001\I831622.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier L:4 M:283 W: Missing Blank Line separator, <130> field identifier L:5 M:270 C: Current Application Number differs, Replaced Current Application No L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:9 M:283 W: Missing Blank Line separator, <160> field identifier L:10 M:283 W: Missing Blank Line separator, <210> field identifier L:14 M:283 W: Missing Blank Line separator, <400> field identifier L:15 M:112 C: (48) String data converted to lower case, M:112 Repeated in SeqNo=1 L:44 M:283 W: Missing Blank Line separator, <400> field identifier L:45 M:112 C: (48) String data converted to lower case, M:112 Repeated in SeqNo=2 L:73 M:283 W: Missing Blank Line separator, <400> field identifier L:74 M:112 C: (48) String data converted to lower case, M:112 Repeated in SeqNo=3 L:102 M:283 W: Missing Blank Line separator, <400> field identifier L:103 M:112 C: (48) String data converted to lower case, M:112 Repeated in SeqNo=4 L:126 M:283 W: Missing Blank Line separator, <400> field identifier L:277 M:283 W: Missing Blank Line separator, <400> field identifier L:411 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6 M:332 Repeated in SeqNo=6 L:422 M:283 W: Missing Blank Line separator, <400> field identifier L:423 M:112 C: (48) String data converted to lower case,

L:486 M:283 W: Missing Blank Line separator, <400> field identifier

L:487 M:112 C: (48) String data converted to lower case,

M:112 Repeated in SeqNo=7

M:112 Repeated in SeqNo=8